INFORMATION DISCLOSURE CITATION

RECEIVED

Attorney Docket No.: GC700

Applicant: Dunn-Coleman et al.

Filing Date: December 18, 2001

Page 1 of 7

Date of this Submission: January 30, 2003

US PATENT DOCUMENTS

Examiner's	Document				Sub-	Filing
Initial	Number	Date	Name	Class	Class	Date
ma	4,816,567	3/28/89	Cabilly et al.	530	387	4/8/83
	4,822,516	4/18/89	Suzuki et al.	252	174.12	12/2/87
	6,162,782	12/19/00	Clarkson et al.	510	320	6/5/95
	6,184,018	2/6/01	Li et al.	435	209	5/6/99
	5,648,263	7/15/97	Schulein et al.	435	263	5/30/95
	5,691,178	11/25/97	Schulein et al.	435	209	6/7/95
	5,776,757	7/7/98	Schulein et al.	435	209	5/30/95
	5,475,101	12/12/95	Ward et al.	536	23.74	3/17/93
mil	4,435,307	3/6/84	Barbesgaard et al.	252	174.12	4/23/81

FOREIGN PATENT DOCUMENTS

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No
mus.	GB 2 095 275 A	9/29/82	United Kingdom			
	GB 2 094 826 A	9/22/82	United Kingdom			
-	WO 91/04673	4/18/91	PCT			
	1,368,599	10/2/74	United Kingdom			
mm	0 562 003 B1	9/4/02	EP			
Examiner		mm	Date Consid	ered 71403		

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449

	INFORMATION DIS	SCLOSURE CITATION	- RECEIVED
Attorn y Docket No.: GC700	OIPE	Serial No.: 10/028,245	TILOLIVED
Applicant: Dunn-Coleman et al.			FEB n 5 2003
Filing Date: December 18, 2001	FEB 0 3 2003	Group: 1645	TECH CENTER 1600/2900
Page <u>2</u> of <u>7</u>	THE SE	Date of this Submission:	January 30, 2002
	& TRANSPIR		

	OTHER BOOGINE INTO
Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
May	Altschul, Stephen F. et al., "Basic Local Alignment Search Tool," J. Mol. Biol. 215:403-410, 1990.
. /	Altschul, Stephen F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nucl. Acids Res., vol. 25, pp. 3389-3402, 1997.
1	Aro, Nina et al., "ACEII, a Novel Transcriptional Activator Involved in Regulation of Cellulase and Xylanase Genes of <i>Trichoderma reesei</i> ," J. Biol. Chem., vol. 276, no. 26, pp. 24309-24314, June 29, 2001.
mid	*Aubert, et al., Ed., p11 et seq., Academic Press, 1988.
	*Ausubel, G. M. et al. Current Protocols in Molecular Biology, John Wiley & Sons, New York, NY, 1993. Page No
Mul	Baldwin, Don et al., Curr. Opin. Plant Biol. 2(2):96-103, 1999.
/	Barnett, Christopher et al. "Cloning and Amplification of the Gene Encoding an Extracellular ß-Glucosidase from <i>Trichoderma Reesei</i> : Evidence for Improved Rates of Saccharification of Cellulosic Substrates,"
	Baulcombe, D., " Viruses and gene silencing in plants," 100 Years of Virology, Calisher and Horzinek eds., Springer-Verlag, New York, NY 15:189-201, 1999.
/	Bhikhabhai, R. et al., "Isolation of Cellulolytic Enzymes from <i>Trichoderma reesei QM 9414,</i> " J. Appl. Biochem. 6:336-345, 1984.
	Brumbauer, Aniko et al., Fractionation of cellulase and ß-glucosidase in a Trichoderma reesei culture liquid by use of two-phase partitioning," Bioseparation 7:287-295, 1999.
	Carter, Paul et al., "Improved oligonucleotide site-directed mutagenesis using M13 vectors," <i>Nucleic Acids Research</i> , vol. 13, no. 12, pp. 4431-4443, 1985.
V	Cees, Am. M. et al., "Heterologous Gene Expression in Filamentous Fungi," More Gene Manipulations in Fungi, Bennett and Lasure, ed., pp. 397-428, 1991.
Minn	Chen, Huizhong et al., "Purification and characterization of two extracellular β-glucosidases from <i>Trichoderma</i> reese?" Biochem et Biophysica Acta 1121:54-60 (1992)
	*Coligan, J. E. et al., eds., Current Protocols in Immunology, 1991 Poge Nos. 1.
mm2	Collen, Anna et al., Journal of Chromatography A 910:275-284, 2001.
V	Coughlan, Michael et al., "Comparative Biochemistry of Fungal and Bacterial Cellulolytic Enzyme Systems" Biochemistry and Genetics of Cellulose Degradation, pp. 11-30 1988.
mine	Cummings, C. et al., "Secretion of <i>Trichoderma reesei</i> ß-glucosidase by <i>Saccharomyces cerevisiae</i> ," Curr. Genet. 29:227-233, 1996.

Examiner	mul	Date Considered 712403
		,
Examiner: Initial if not in conform	if reference considered, whethe ance and not considered. Include	or not citation is in conformance with MPEP 609; draw line through citation e copy of this form with next communication to applicant.
		PTO-1449

. BYEORMATIO	N DISCLOSURE CITATION	
Attorney Docket No.: GC700	Serial No.: 10/028	RECEIVED
Applicant: Dunn-Coleman et al.		11202
Filing Date: December 18, 2001	Group: 1645	FEB N 5 2003
Page 3 of 7	Date of this Submission: Jan	uary 30, 2002, CENTER 1600/2900

Examiner's		· · · · · · · · · · · · · · · · · · ·		
Initials	Author, Title, Date, Pertinent Pages, etc.	·		
Dayhoff, M.O. et al., "A Model of Evolutionary Change in Prote National Biomedical Research Foundation, Washington, D.C., 1978.		ge in Proteins," Atlas of Protein Sequence and Structure, gton, D.C., vol. 5, Supplement 3, Chapter 22, pp. 345-352		
mo	Deutscher, Murray P., "Rethinking Your Purification 779, 1990.	Procedure," Methods in Enzymology, vol. 182, no. 57, pp.		
	*Deelittle, R. F., OF URFS AND ORFS, University Scien	nco Books, CA, 1986. Page NOS 2		
Mag	Ellouz, S. et al., "Analytical Separation of <i>Trichoderi</i> Chromatography," J. Chromatography 396:307-317,	ma Reesei Cellulases by Ion-Exchange Fast Protein Liquid , 1987.		
<i>J</i>	Fields, Stanley et al., "A novel genetic system to de	tect protein-protein interactions," Nature, 340:245-246, 1989.		
٧,	Filho, Edivaldo, "Purification and characterization o grisea var. thermoidea," Can. J. Microbiol. 42:1-5, 19	of a ß-glucosidase from solid-state cultures of <i>Humicola</i> 996.		
	Fliess, A. et al., "Characterization of Cellulases by F 17:314-318, 1983.	IPLC Separation," Eur. J. Appl. Microbiol. Biotechnol.		
wes	Freer, Shelby, "Kinetic Characterization of a ß-Glucosidase from a Yeast, <i>Candida wickerhamii</i> ," J. Biol. Chem. vol. 268, no. 13, pp. 9337-9342, 1993.			
4	*Freshney, R. I., ed., Animal Cell Culture, 1987 Page NUS. ?			
Goyal, Anil et al. "Characteristics oif Funal Cellulases," Bioresource Technol. 36:37-50, 1991.		es," Bioresource Technol. 36:37-50, 1991.		
<u>ٽ</u>	Halldorsdottir, S et al., "Cloning, sequencing and overexpression of a Rhodothermus marinus gene encoding a thermostable cellulase of glycosyl hydrolase family 12," Appl Microbiol Biotechnol. 49(3):277-84, 1998.			
	Hemmpel, W.H., "The surface modificaitonof woven and knitted cellulose fibre fabrics by enzymatic degradation," ITB Dyeing/Printing/Finishing 3:5-14, 1991.			
	Henrissat, Bernard et al., "New families in the classi sequence similarities," Biochem. L. 293:781-788, 19	Henrissat, Bernard et al., "New families in the classification of glycosyl hydrolases based on amino acid sequence similarities," Biochem. L. 293:781-788, 1993.		
V	Herr, D. et al., "Purification and Properties of an Ext Appl. Microbiol. Biotechnol. 5:29-36, 1978.	tracellular ß-Glucosidase from <i>Lenzites trabea</i> ," Europ an		
	Hu, Qianjin et al., "Antibodies Specific for the Human Retinoblastoma Protein Identify a Family of Related Polypeptides," Mol Cell Biol. vol.11, no. 11, pp. 5792-5799, 1991.			
	Ilmen, Marja et al., "Regulation of Cellulase Gene Expression in the Filamentous Fungus <i>Trichoderma reesei,</i> " Appl. and Envir. Micro., vol. 63, no. 4, pp. 1298-1306, 1997.			
Lewyn	Jakobovits, Aya, et al., "Production of Antigen-Specific Human Antibodies from Mice Engineered with Human Heavy and Light Chain YACs ^a Annals New York Academy of Sciences, 764:525-535, 1995.			
Examiner	MMML D	ate Considered 7/2/03		
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				
PTO-1449				

•	INFORMATION DIS	CLOSURE CITATION	RECEIVED
Attorney Docket No.: GC700	2	Serial No.: 10/028	LICEIVED
Applicant: Dunn-Coleman et al.	FEB 0 3 2003		FEB 0 5 2003
Filing Date: December 18, 2001	PA	Group: 1645	TECH OFNER
Page <u>4</u> of <u>7</u>	TO TO LOCAL TO A	Date of this Submission:	January 30, 2003 CENIER 1600/29

	OTHER DOCUMENTS		
Examiner's			
nitials	Author, Title, Date, Pertinent Pages, etc.		
Meege	Jakobovits, Aya, "Production of fully human antibodies by transgenic mice," Curr Opin Biotechnol <u>6</u> (5):561-6, 1995.		
/	Jones, Peter et al., "Replacing the complementarity—determining region sin a human antibody with those from a mouse," Nature 321:522-525, 1986.		
J	Kawaguchi, Takashi et al., "Cloning and sequencing of the cDNA encoding β-glucosidase 1 from Aspergillus aculeatus," Gene 173(2):287-8, 1996.		
ι	Knowles, Jonathan et al., TIBTECH 5, 255-261, 1987.		
/	Kohler, G. et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , vol. 256, pp. 495-499, August 7, 1975		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Krishna, S. Hari et al., "Simultaneous saccharification and fermentation of lignocellulosic wastes to ethanol using a thermotolerant yeast," Bioresource Tech. 77:193-196, 2001.		
	Kumar, Akhil, et al., "Optimizing the Use of Cellulase Enzymes in Finishing Cellulosic Fabrics," Textile Chemist and Colorist, 29:37-42, 1997.		
	Lehtio, Janne. et al., FEMS Microbiology Letters 195:197-204, 2001.		
	Li, Xin-Liang et al. "Expression of Aureobasidium pullulans xynA in, and Secretion of the Xylanase from, Saccharomyces cerevisiae," Appl. Environ. Microbiol. 62, no. 1, pp. 209-213, 1996.		
	Linder, Marcus et al., "The roles and function of cellulose-binding domains," Journal of Biotechnol. 57:15-28, 1997		
Ü	Liukkonen, Pere J., et al., "Use of Purified Enzymes in Mechanical Pulping," 1996 Tappi Pulping Conference, pp. 693-696, Nashville, TN.		
1	Loftus, Joseph C. et al. "A ß ₃ Integrin Mutation Abolishes Ligand Binding and Alters Divalent Cation- Dependent Conformation," Science, vol. 245, pp. 915-921, August 24, 1990.		
V	Medve, Jozsef et al., "Ion-exchange chromatographic purification and quantitative analysis of <i>Trichoderma</i> reesei cellulases cellobiohydrolase I, II and endoglucanase II by fast protein liquid chromatography," J. Chromatography A 808:153-165, 1998.		
(Nielsen, Henrik et al. "Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites," Protein Engineering, vol. 10, no. 1, pp. 1-6, 1997.		
	Ohmiya, Kunio et al., "Structure of Cellulases and Their Applications," Biotechnol. Gen. Engineer. Rev. vol. 14, pp. 365-414, 1997.		
must.	Okada, Hirofumi et al., "Molecular Characterization and Heterologous Expression of the Gene Encoding a Low-Molecular-Mass Endoglycanase from Trichoderma reesei QM9414," Applied and Environmental Microbiology, vol. 64, no. 2, pp. 555-563, 1990.		
Examiner	Date Considered 7/2403		
Examiner: Ini if not in confo	tial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation rmance and not considered. Includ copy of this form with next communication to applicant.		
	PTO-1449		

	INFORMATION DISC	CLOSURE CITATION	
Attorney Docket No.: GC700	- mm	Serial No.: 10/028,245	
Applicant: Dunn-Coleman et al.	FEB U 3 2003 EU		
Filing Date: Dec mber 18, 2001	n oti	Group: 1645	
Page 5 of 7	TRADER	Date of this Submission: January 30, 2003	

		OTHER DOCU	WENTS		
Exam	iner's				
Initial	s	Author, Title, Date, Pertinent Pages, etc.			
M	hest	Ooi, Toshihiko <i>et al.</i> , "Complete nucleotide seque CMCase), Nucleic Acids Research, vol. 18, no. 19,	nce of a gene coding for <i>Aspergillus aculeatus</i> cellulase (FI- 1990.		
•	V	Ortega Natividad et al., "Kinetics of cellulose saccharification by <i>Trichoderma reesei</i> cellulases," International Biodeterioration and Biodegradation 47:7-14, 2001.			
	\ <u></u>	Penttila, Merja et al., "Expression of Two <i>Trichode cerevisiae</i> ," Yeast vol. 3, pp 175-185, 1987.	Penttila, Merja et al., "Expression of Two <i>Trichoderma r</i> eesei Endoglucanases in the Yeast <i>Saccharomyces</i> rerevisiae," Yeast vol. 3, pp 175-185, 1987.		
	/	Penttila Merja et al., "Efficient secretion of two fundence, 63: 103-112, 1988.	ngal cellobiohydrolases by Saccharomyces cerevisiae,"		
	/	Penttila, Merja et al. "Homology between cellulase sequence of the endoglucanase I gene," Gene, 45	genes of Trichoderma reesei: complete nucleotide : 253-263, 1986.		
	_	Pourquie, J. et al., "Scale Up of Cellulase Producti Degradation, Academic Press Ltd., pp. 71-86, 1988	ion and Utilization," Biochemistry and Genetics of Cellulose 8.		
		Riechmann, Lutz et al., "Reshaping human antibo	dies for therapy," Nature, vol. 332, pp. 323-327, 1988.		
	U	Rothstein, Steven J. et al., "Synthesis and secretic 55:353-356, 1987.	on of wheat α-amylase in Saccharomyces cerevisiae," Gene		
		Saarilahti, Hannu T. <i>et al.</i> , "CelS: a novel endoglycanase identified from <i>Erwinia carotovora</i> subsp. <i>carotovora</i> ," Gene 90:9-14, 1990			
		Sakamoto, S. et al., "Cloning and sequencing of cellulase cDNA from Aspergillus kawachii and its expression in Saccharomyces cerevisiae," Curr. Genet. 27:435-439, 1995.			
	\rightarrow	Saloheimo, Anu et al. "A novel, small endoglucanase gene, eg15 from <i>Trichoderma reesei</i> isolated by expression in yeast," Molecular Microbiology, vol. 13, no. 2, pp. 219-228, 1994.			
	J	Saloheimo M, et al., "EGIII, a new endoglucanase from <i>Trichoderma reesei</i> : the characterization of both gene and enzyme," Gene, 63:11-22, 1988.			
	ζ.	Saloheimo, Markku et al. "cDNA cloning of a Trich endoglucanase activity by expression in yeast,"E			
		*Sambrook et al., MOLECULAR CLONING: A LABORATO Plainview, N.Y., 1989.	RY MANUAL (Second Edition), Cold Spring Harbor Press,		
	ت	Schulein, Martin, "Cellulases of Trichoderma rees	ei," Methods Enzymol., 160, 25, pp. 234-243, 1988.		
	_	Scopes,Robert et al. "Purification of All Glycolytic Enzymes from One Muscle Extract," Methods Enzymol. 90: 479-91, 1982.			
. <	7 -	Shoemaker, S., et al., "Molecular Cloning of Exo-Cellobiohydrolase I Derived from <i>Trichoderma Reesei</i> Strain L27,"Bio/Technology, pp. 691-696, 1983.			
h	Spilliaert Remi, et al., "Cloning and sequencing of a Rhodothermus marinus gene, bglA, coding for a thermostable ß-glucanase and its expression in Escherichia coli," Eur J Biochem. 224(3):923-30, 1994.				
Exam	iner	mont_	Date Considered フレルシ		
Examiner: Initial if referenc considered, wh ther or not citation is in conformance with MPEP 609; draw lin through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					
			PTO-1449		

. INFORMATION D	ISCLOSURE CITATION
Attorney Docket No.: GC700	Serial No.: 10/028
Applicant: Dunn-Coleman et al.	FEB 0.5 2003
Filing Date: December 18, 2001	Group: 1645
Page <u>6</u> of <u>7</u>	Date of this Submission: January 30, 2003 CENTER 1600/290
OTHER	DOCUMENTS

A MARIE A MARIE AND A MARIE AN

東 華

Ť

	OTHER DOCUMEN		
Examiner's			
Initials	Author, Title, Date, Pertinent Pages, etc.		
mil	Stahlberg, Jerry et al., "A New Model fro Enzymatic Hydrolysis of Celluloase Based on the Two-Domain Structure of Cellobiohydrolase I," Bio/Technol. 9:286-290, 1991.		
· · · · · · · · · · · · · · · · · · ·	*Strathern et al., eds. The Molecular Biology of the Yeast Saccharomyces, 1981. Page NOS 2		
Mass	Suurnakki, A. et al., "Trichoderma reesei cellulases and their core domains in the hydrolysis and modification of chemical pulp," Cellulose 7:189-209, 2000.		
- 1	*Tilbeurgh, H. et al., FEBS Lett. 16:215, 1984. Page NU-S.		
Samu	Takashima, Shou et al., "Molecular Cloning and Expression of the Novel Fungal ß-Glucosidase Genes from Humicola grisea and Trichoderma reesei," J. Biochem. vol. 125, pp. 728-736, 1999.		
	Teeri, Tuula T., et al. "Homologous domains in <i>Trichod</i> expression of cellobiohydrolase II," Gene, 51:43-52, 198	erma reesei cellulolytic enzymes: gene sequence and 37.	
V	Timberlake, William E. et al., "Organization of a Gene Cluster Expressed Specifically in the Asexual Spores of A. nidulans," Cell, vol. 1, pp. 29-37, 1981.		
	Tomaz, Candida et al., "Studies on the chromatographic fractionation of <i>Trichoderma reesei</i> cellulases by hydrophobic interaction," J. Chromatography A 865:123-128, 1999.		
V	Tomme, Peter et al., "Studies of the cellulolytic system 170:575-581, 1988.	of <i>Trichoderma reesei</i> QM 9414," Eur. J. Biochem.	
7	Tormo, Jose et al., "Crystal structure of a bacterial family-III cellulose-binding domain: a general mechanism for attachment to cellulose," EMBO J. vol. 15, no. 21, pp. 5739-5751, 1996.		
,	Tyndall, R.M., "Improving the Softness and Surface Appearance of Cotton Fabrics and Garments by Treatment with Cellulase Enzymes," Textile Chemist and Colorist 24:23-26, 1992.		
٧	Valentino, S.J. et al. "Codon optimization of xylanase gene xynB from the thermophilic bacterium Dictyoglomus thermophilum for expression in the filamentous fungus Trichoderma reesei," FEMS Microbiology Letters, 190: 13-19, 2000.		
J	Van Rensburg, Pierre et al., "Engineering Yeast for Efficient Cellulose Degradation," Yeast, vol. 14, pp. 67-76, 1998.		
	Verhoeyen, Martine et al., "Reshaping Human Antibodies: Grafting an Antilysozyme Activity," Science, vol. 239, pp. 1534-1536, 1988.		
	Warrington, J.A., et al. "A Radiation Hybrid Map of 18 Growth Factor, Growth Factor Receptor, Hormone Receptor, or Neurotransmitter Receptor Genes on the Distal Region of the Long Arm of Chromosome 5," Genomics, vol. 13, pp. 803-808, 1992.		
	Wells, J.A. et al., "Importance of hydrogen-bond formation in stabilizing the transition state of subtilisin," Phil. Trans. R. Soc. London A, vol. 317, pp. 415-423, 1986.		
mine	Wells, James A. et al., "Cassette mutagenesis: an efficient method for generation of multiple mutations at defined sites," Gene, vol. 34, pp. 315-323, 1985.		
Examin r	YMML Date	Considered フレンろ	
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Includ copy of this form with next communication to applicant.			
PTO-1449			

#.? E_

	DISCLOSURE CITATION	DECEIVED
		RECEIVED
Attorney Docket No.: GC700	Serial No.: 10/028	4.1.5
Applicant: Dunn-Coleman et al. (FEB 0 3 2003)		FEB 0 5 2003
Filing Date: December 18, 2001	Group: 1645 Date of this Submission: Janua	TECH CENTER 1600/200
Page 7 of 7	Date of this Submission: Janua	ry 30, 2003

	OTHER DOCUMENTS			
Examiner's				
Initials	Author, Title, Date, Pertinent Pages, etc.			
Mues	Wood, Thomas M., "Properties of cellulolytic enzyme systems," Biochemical Society Transactions, 611 th Meeting, Galway, vol. 13, pp. 407-410, 1985.			
	Wood, Thomas M. et al., "Methods for Measuring Cellulase Activities, Methods in Enzymology, vol. 160, no. 9, pp. 87-116, 1988.			
two	Zoller, Mark J. et al., "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any fragment of DNA," Nucleic Acids Research, vol. 10m no. 20, pp. 6487-6500, 1982.			
Examiner	Date Considered 2/2/03			
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				
	PTO-1449			